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### Discrete ray tracing

R Yagel, D Cohen, A Kaufman - IEEE Computer graphics and ... , 1992 - ieeeexplore.ieee.org

... The **traversal** starts as a 26-ray that rapidly skips over the transparent regions. ... The extra proximity flags in the adaptive algorithm add only one **test** per iteration to the overall execution ... pling by adopting a 3D line algorithm that can handle sub-pixel addressing of the **ray** origin. ...

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### Fast ray-tracing of rectilinear volume data using distance transforms

M Sramek, A Kaufman - IEEE Transactions on Visualization ... , 2000 - ieeeexplore.ieee.org

... 3a, **Ray A**). The hit-miss **test** can be performed by evaluation of the interpolating ... B ASSED V OXEL TRAVERSAL ALGORITHMS Not all **voxels** along the **ray** contribute to ... The macro-region based **voxel traversal** algorithms exploit the object space coherence, that is, the tendency ...

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### Efficient ray tracing of volume data

M Levoy - ACM Transactions on Graphics (TOG), 1990 - portal.acm.org

... We then traverse the pyramid in the following manner: When we enter a cell, we **test** its **value**. ... 2. AMANTIDES, J., AND WOO, A. A fast **voxel traversal** algorithm for **ray** tracing. ... 26. OHTA, M., AND MAMOURU, M. **Ray** coherence theorem and constant time **ray** tracing algorithm. ...

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### Applying space subdivision techniques to volume rendering

KR Subramanian, DS Fussell - Proceedings of the 1st conference ... , 1990 - portal.acm.org

... A similar strategy holds for identifying the **traversal** order when the partitioning dimension is y or z. 5 ... Ar-dent Titan 1500 running Ardent UNIX1 2.1.1 and tested the implementation on three different **test** cases. ... All timings are for a resolution of 640x480, with one **ray** cast per pixel ...

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### Ray tracing on programmable graphics hardware

TJ Purcell, I Buck, WR Mark, P ... - ACM SIGGRAPH 2005 ... , 2005 - portal.acm.org

... Specifying the correct stencil **test** with a rendering pass, we can allow the kernel to be run on only ... As with the **traversal** stage, the inner loop over all the triangles in a **voxel** involves multiple passes. ... The shading kernel evaluates the color contribution of a given **ray** at the hit point. ...

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### Fast stereoscopic images with ray-traced volume rendering

SJ Adelson, CD Hansen - Proceedings of the 1994 symposium on ... , 1994 - portal.acm.org

... Three sets of volumetric **data** were used to **test** the renderer: a CT scan of a human head (1283 - Figure 3 ... eye rays **traverse** this box orthogonally, while the right-eye rays pass through at an angle, which is a longer **traversal**. ... Stephen and Hodges, Larry, Stereoscopic **Ray**- Tracing ...

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### An interactive visualization and navigation tool for medical volume data

O Sommer, A Dietz, R Westermann, T Ertl - Computers & Graphics, 1999 - Elsevier

... assume an orthographic projection, the volume integration **along** a **ray** of sight collapses to the **traversal** of columns ... Our present approach offers the whole flexibility volume **ray**-casting does ... With the stencil buffer **test** is enabled a pixel is drawn only if it passes the **test** between a ...

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### Fast algorithms for volume ray tracing

J Danksin, P Hanrahan - Proceedings of the 1992 workshop on ... , 1992 - portal.acm.org

... The first technique allows fast **traversal** of empty space using octrees. ... The **din images** in the figures **represent** the lpixel and channel-wise absolute **value** of the difference between the **test image** and the reference image. ... Think of the **ray** as a particle. ...

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### Faster isosurface ray tracing using implicit kd-trees

I Waid, H Friedrich, G Marmitt, P Slusalek, ... - IEEE Transactions on ... , 2005 - computer.org

... **traversal** code requires only minimal modifications: During each **traversal** step, we first **test** whether the ... Even for a closeup onto the Bonsai **data set**, profiling revealed only 9 percent of ... 4.3 SIMD **Traversal**. The same argument as for single-**ray traversal** holds similarly for SIMD ...

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### Volumetric ray tracing

LM Sobierajski, AE Kaufman - ... of the 1994 symposium on Volume ... , 1994 - portal.acm.org

... can be reduced by performing the full analytical solution only if some simpler **test** is passed. ... For example, if a maximum-**value** projection is required, then the **traversal** cannot terminate early, since ... In this section, a description is given for each of the **ray** traced **images** included in ...

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